

Sheet 1 of 8

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 210121.515D1	APPLICATION NO. 10/762,058
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Ajay Bhatia et al.	
		FILING DATE January 15, 2004	GROUP ART UNIT 1642

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PB	AA	4,118,469	10/03/78	Caldwell et al.	424	1	
PB	AB	4,497,899	02/05/85	Armstrong et al.	436	510	
PB	AC	5,166,053	11/24/92	Huguenel et al.	435	7.36	
PB	AD	5,318,892	06/07/94	Watanabe et al.	435	7.36	
PB	AE	5,725,863	03/10/98	Daniels et al.	424	263.1	
PB	AF	5,869,608	02/09/99	Caldwell et al.	530	350	
PB	AG	6,166,177	12/26/00	Probst et al.	530	300	
PB	AH	6,432,916	08/13/02	Probst et al.	514	2	
PB	AI	6,448,234	09/10/02	Fling	514	44	
PB	AJ	6,565,856	05/20/03	Skeiky et al.	424	263.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
PB	AK	EP 348725 A2	01/03/90	EPO		
PB	AL	EP 784059 A1	07/16/97	EPO		
PB	AM	WO 94/06827	03/31/94	WIPO		
PB	AN	WO 97/06263	02/20/97	WIPO		
PB	AO	WO 98/02546	01/22/98	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PB	AP	Allen and Stephens, "An intermolecular mechanism of T cell help for the production of antibodies to the bacterial pathogen, <i>Chlamydia trachomatis</i> ," <i>European Journal of Immunology</i> 23: 1169-1172, 1993.
PB	AQ	Baehr et al., "Mapping antigenic domains expressed by chlamydia trachomatis major outer membrane protein genes," <i>Proc Natl Acad Sci</i> 85(1):4000-4004, June 1, 1988.
PB	AR	Brunham et al., "Chlamydia trachomatis antigens: role in immunity and pathogenesis," <i>Infectious Agents and Disease</i> 3(5):218-233, October 1994.

EXAMINER /Padmavathi Baskar/	DATE CONSIDERED 08/07/2006
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BA							
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					YES	NO	
PB	BB	WO 98/10789	03/19/98	WIPO			
PB	BC	WO 99/17741	04/15/99	WIPO			
PB	BD	WO 99/27105	06/03/99	WIPO			
PB	BE	WO 99/28475	06/10/99	WIPO			
PB	BF	WO 99/51748	10/14/99	WIPO			
PB	BG	WO 00/34483	06/15/00	WIPO			
PB	BH	WO 01/40474	06/07/01	WIPO			
	BI						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PB	BJ	Burgess, W.H. et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>The Journal of Cell Biology</i> 111: 2129-2138, 1990.					
PB	BK	Chakrabarti et al., "Vaccinia virus expression vector: coexpression of β -galactosidase provides visual screening of recombinant virus plaques," <i>Molecular and Cellular Biology</i> 5(12):3403-3409, December 1985.					
PB	BL	Conlan, J.W. et al., "Isolation of recombinant fragments of the major outer-membrane protein of <i>Chlamydia trachomatis</i> : their potential as subunit vaccines," <i>Journal of General Microbiology</i> 136: 2013-2020, 1990.					
PB	BM	Earl et al., "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins and truncations and deletions expressed by recombinant vaccinia viruses," <i>Journal of Virology</i> 65(1):31-41, January 1991.					
PB	BN	GenBank Accession No. AE001273, "Genome sequence of an obligate intracellular pathogen of humans: <i>Chlamydia trachomatis</i> ," June 2, 2004.					
PB	BO	Genbank Database, Accession No. AE001316, June 1, 2004					
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	CA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
	CB					YES	NO
OTHER ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
PB	CC	Genbank Database, Accession No. AE001320, June 1, 2004					
PB	CD	GenBank Database, Accession No. AE001323, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
PB	CE	GenBank Database, Accession No. AE001324, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
PB	CF	Genbank Database, Accession No. AE001326, June 1, 2004.					
PB	CG	GenBank Database, Accession No. AE001335, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
PB	CH	Genbank Database, Accession No. AE001361, June 1, 2004.					
PB	CI	GenBank Database, Accession No. E71500, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," November 3, 2000.					
PB	CJ	GenBank Database, Accession No. H71501, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," July 28, 2000.					
PB	CK	GenBank Database, Accession No. H71510, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," October 8, 1999.					
PB	CL	GenBank Database, Accession Number AAC68408, June 1, 2004.					
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PB	DC	GenBank Database, Accession Number AAF39070, March 26, 2003.					
PB	DD	GenBank Database, Accession Number AE001333, June 1, 2004.					
PB	DE	GenBank Database, Accession Number AE001353, October 30, 2000.					
PB	DF	GenBank Database, Accession Number AE002286, March 26, 2003.					
PB	DG	GenBank Database, Accession Number AE002343, March 26, 2003.					
PB	DH	GenBank Database, Accession No. H71468, October 8, 1999.					
PB	DI	EMBL Database, Accession Number O84466, June 1, 2003.					
PB	DJ	GenBank Database, Accession No. NC_000117, September 14, 2004.					
PB	DK	Grimwood, J. et al., "Expression of <i>Chlamydia pneumoniae</i> Polymorphic Membrane Protein Family Genes," <i>Infection and Immunity</i> 69(4): 2383-2389, April 2001.					
PB	DL	Gu et al., "Chlamydia trachomatis RNA polymerase α subunit: sequence and structural analysis," <i>J. Bacteriology</i> 177:2594-2601, May 1995.					
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					YES	NO	
	EB						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PB	EC	Hayes, L.J. et al., " <i>Chlamydia trachomatis</i> major outer membrane protein epitopes expressed as fusions with LamB in an attenuated <i>aroA</i> strain of <i>Salmonella typhimurium</i> ; their application as potential immunogens," <i>Journal of General Microbiology</i> 137: 1557-1564, 1991.					
PB	ED	Hayes, L.J. et al., "The major outer-membrane proteins of <i>Chlamydia trachomatis</i> serovars A and B: intra-serovar amino acid changes do not alter specificities of serovar- and C subspecies-reactive antibody-binding domains," <i>Journal of General Microbiology</i> 136: 1559-1566, 1990.					
PB	EE	Janeway et al. (eds.), <i>Immunobiology: The Immune System in Health and Disease</i> , Garland Pub., New York, NY, 1997, pgs. 7:6-7:10.					
PB	EF	Jensen et al., "Infection of human and simian tissue cultures with rous sarcoma virus," <i>Proc. Natl. Acad. Sci. USA</i> 52:53-59, July 1964.					
PB	EG	Jobling, M.G. et al., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Molecular Microbiology</i> 5(7): 1755-1767, 1991.					
PB	EH	Kalman, S. et al., "Comparative genomes of <i>Chlamydia pneumoniae</i> and <i>C. trachomatis</i> ," <i>Nature Genetics</i> 21: 385-389, April 1999.					
PB	EI	Kim, S.-K. et al., "Induction of HLA Class I-Restricted CD8 ⁺ CTLs Specific for the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> in Human Genital Tract Infections," <i>The Journal of Immunology</i> 162: 6855-6866, 1999.					
PB	EJ	Knudsen, K. et al., "Identification of Two Novel Genes Encoding 97- to 99- Kilodalton Outer Membrane Proteins of <i>Chlamydia pneumoniae</i> ," <i>Infection and Immunity</i> 67(1): 375-383, January 1999.					
PB	EK	Kuon, W. et al., "Recognition of Chlamydial Antigen By HLA-B27-Restricted Cytotoxic T Cells in HLA-B*2705 Transgenic CBA(H-2 ^k) Mice," <i>Arthritis & Rheumatism</i> 40(5): 945-954, May 1997.					
PB	EL	Lalvani et al., "Rapid effector function in CD8 ⁺ memory T cells," <i>J. Exp. Med.</i> 186(6):859-865, September 15, 1997.					
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				YES NO			
FB							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PB	FC	Lazar, E. et al., "Transforming Growth Factor α : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8(3): 1247-1252, March 1988.					
PB	FD	Levinson and Jawetz, <i>Medical Microbiology & Immunology</i> , 3d ed., Appleton & Lange, 1994, pp.292-293.					
PB	FE	Lu and Zhong, "Interleukin-12 Production IS Required for Chlamydial Antigen-Pulsed Dendritic Cells To Induce Protection against Live <i>Chlamydia trachomatis</i> Infection," <i>Infection and Immunity</i> 67(4): 1763-1769, April 1999.					
PB	FF	Maclean, I.W. et al., "Characterization of <i>Chlamydia trachomatis</i> antigens with monoclonal and polyclonal antibodies," <i>Can. J. Microbiol.</i> 34: 141-147, 1988.					
PB	FG	Murdin, A.D. et al., "A Poliovirus Hybrid Expressing a Neutralization Epitope from the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> Is Highly Immunogenic," <i>Infection and Immunity</i> 61(10): 4406-4414, October 1993.					
PB	FH	Mygind, P.H. et al., "Membrane proteins PmpG and PmpH are major constituents of <i>Chlamydia trachomatis</i> L2 outer membrane complex," <i>FEMS Microbiol. Lett.</i> 186(2): 163-169, May 15, 2000.					
PB	FI	Pal, S. et al., "Immunization with an Acellular Vaccine Consisting of the Outer Membrane Complex of <i>Chlamydia trachomatis</i> Induces Protection against a Genital Challenge," <i>Infection and Immunity</i> 65(8): 3361-3369, August 1997.					
PB	FJ	Pawlikowska and Deptula, "Adherence and ingesting capacity of peripheral blood granulocytes in rabbits immunized with various antigens of <i>Chlamydia sp.</i> ," <i>Central European Journal of Immunology</i> 24: 293-298, 1999.					
PB	FK	Peterson, E.M. et al., "The Effect of Orientation Within a Chimeric Peptide on the Immunogenicity of <i>Chlamydia trachomatis</i> Epitopes," <i>Molecular Immunology</i> 33(4/5): 335-339, 1996.					
PB	FL	Rank et al., "Immunization against Chlamydial Genital Infection in Guinea Pigs with UV-Inactivated and Viable <i>Chlamydiae</i> Administered by Different Routes," <i>Infection and Immunity</i> , 58(8):2599-2605, August 1990.					
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	GB						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PB	GC	Read et al., "Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae AR39," <i>Nucleic Acids Research</i> 28(6):1397-1406, 2000.					
PB	GD	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A. (ed.), University Park Press, Baltimore, MD, June 1976, pgs. 1-5.					
PB	GE	Sanderson et al., "Identification of a CD4 ⁺ T Cell-stimulating Antigen of Pathogenic Bacteria by Expression Cloning," <i>J. Exp. Med.</i> 182(6):1751-1757, 1995.					
PB	GF	Scudiero et al., "Evaluation of a soluble tetrazolium/formazan assay for cell growth and drug sensitivity in culture using human and other tumor cell lines," <i>Cancer Research</i> 48:4827-4833, September 1, 1988.					
PB	GG	Shirai, M. et al., "Comparison of whole genome sequences of <i>Chlamydia pneumoniae</i> J138 from Japan and CWL029 from USA," <i>Nucleic Acid Research</i> 28(12): 2311-2314, 2000.					
PB	GH	Stagg, A.J., "Vaccines against <i>Chlamydia</i> : approaches and progress," <i>Molecular Medicine Today</i> 4(4): 166-173, April 1998.					
PB	GI	Starnbach et al., "Protective cytotoxic T lymphocytes are induced during murine infection with <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 153(11):5183-5189, December 1, 1994.					
PB	GJ	Stephens et al., "Genome Sequence of an Obligate Intracellular Pathogen of Humans: <i>Chlamydia trachomatis</i> ," <i>Science</i> 282:754-759, October 23, 1998.					
PB	GK	Su and Caldwell, "Immunogenicity of a synthetic oligopeptide corresponding to antigenically common T-helper and B-cell neutralizing epitopes of the major outer membrane protein of <i>Chlamydia trachomatis</i> ," <i>Vaccine</i> 11(11): 1159-1166, 1993.					
PB	GL	Su, H. et al., "Protective efficacy of a parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of <i>Chlamydia trachomatis</i> genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection," <i>Vaccine</i> 13(11): 1023-1032, 1995.					
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						YES	NO
	HB						
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PB	HC	Unanue, E.R., "Chemical Features of Peptide Selection by the Class II Histocompatibility Molecules," <i>American Journal of Pathology</i> 154(3): 651-664, March 1999.					
PB	HD	Webb et al., "Molecular cloning of a novel protein antigen of Leishmania major that elicits a potent immune response in experimental murine leishmaniasis," <i>The Journal of Immunology</i> 157:5034-5041, 1996					
PB	HE	Yasuda, K. et al., "Serine 6 of Lck Tyrosine Kinase: A Critical Site for Lck Myristoylation, Membrane Localization, and Function in T Lymphocytes," <i>The Journal of Immunology</i> 165: 3226-3231, 2000.					
PB	HF	Zhang, D. et al., "DNA vaccination with the major outer-membrane protein gene induces acquired immunity to <i>Chlamydia trachomatis</i> (mouse pneumonitis) infection," <i>J. Infect. Dis.</i> 176(4): 1035-1040, October 1997.					
PB	HG	Zhong, G. et al., "Immunogenicity Evaluation of a Lipidic Amino Acid-Based Synthetic Peptide Vaccine for <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 151(7): 3728-3736, October 1, 1993.					
PB	HH	Zhong, G. et al., "Mapping epitopes of neutralizing monoclonal antibodies using phage random peptide libraries," <i>Journal of Industrial Microbiology & Biotechnology</i> 19: 71-76, 1997.					
PB	HI	Zhong, G. et al., "Conformational Mimicry of a Chlamydial Neutralization Epitope on Filamentous Phage," <i>Journal of Biological Chemistry</i> 269(39): 24183-24188, September 30, 1994.					
	HJ						
	HK						
	HL						
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